

Electromagnetic Waves and Their Influence on the Human Body

**UNDERSTANDING THE SCIENCE BEHIND
FREQUENCY-BASED THERAPIES**

Chyenne Giarnese, APRN-FNP

Drew Fisher, ATC

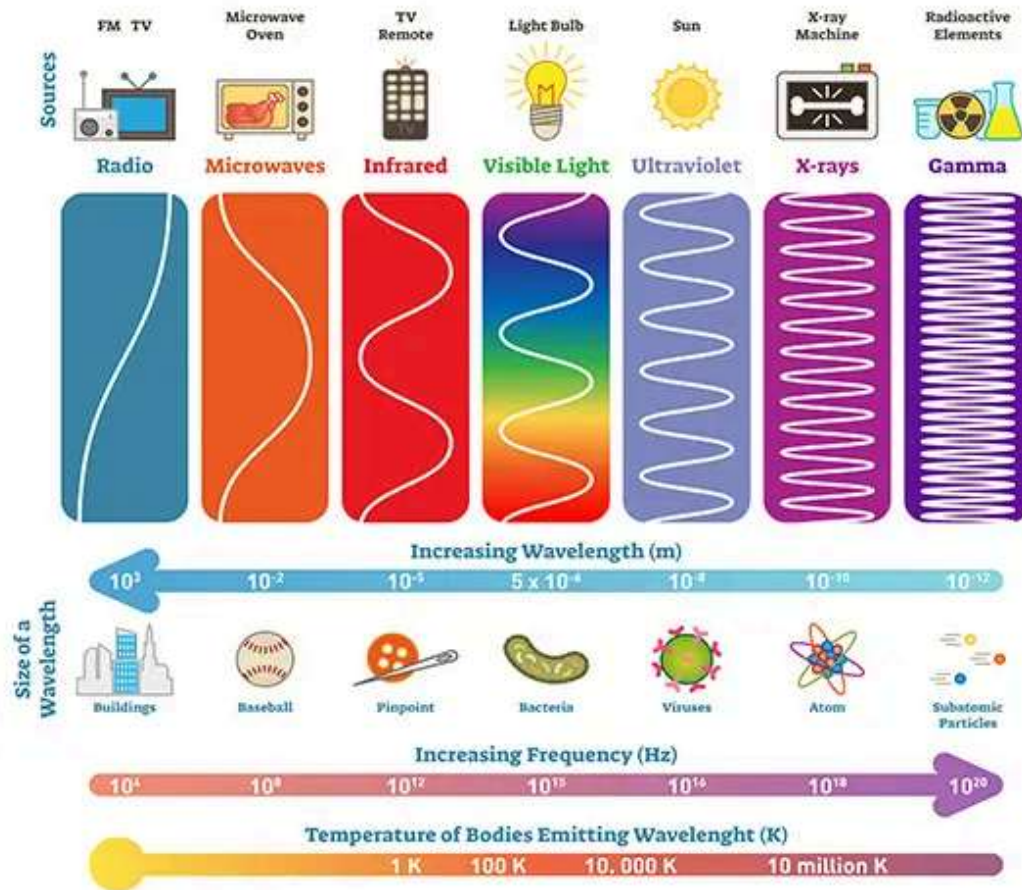
AGENDA

- What are Electromagnetic Waves
- Understanding the Electromagnetic Spectrum
- Discover the Electromagnetic Waves in the Body
- History of Electromagnetic Waves
- Modern Use of Electromagnetic Waves
- Our Approach & Application

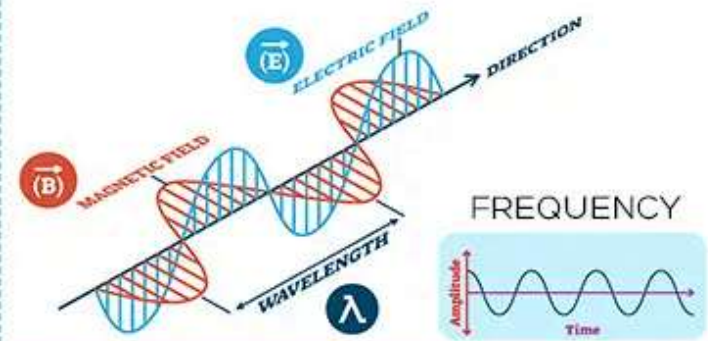
WHAT ARE ELECTROMAGNETIC WAVES?

- Electromagnetic (EM) waves are oscillations of electric and magnetic fields that travel through space and do not require a medium.
- They can propagate through a vacuum, move at the speed of light, unlike mechanical waves like sound, which need a medium to travel.
- EM Waves are classified based on frequency and wavelength.
- EM waves are fundamental to both natural biological processes and technological applications.

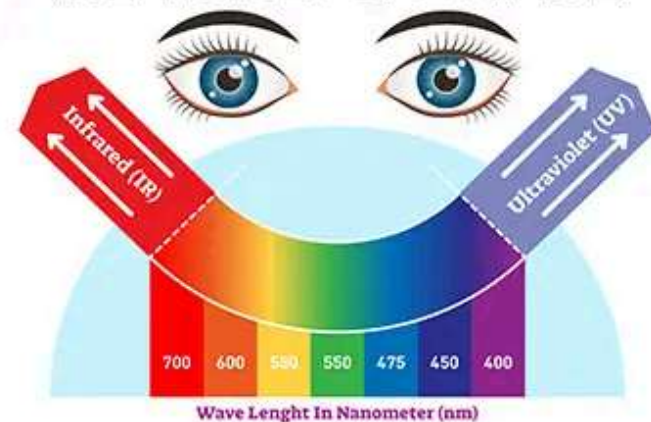
THE ELECTROMAGNETIC SPECTRUM



ELECTROMAGNETIC WAVES



THE VISIBLE SPECTRUM



THE ELECTROMAGNETIC SPECTRUM

- Categories:
 - Low-frequency waves: Radio waves, ELF (extremely low frequency), and microwaves (used in communication and PEMF therapy).
 - Mid-frequency waves: Infrared and visible light (natural sunlight, heat emission).
 - High-frequency waves: Ultraviolet, X-rays, and gamma rays (ionizing radiation that can be harmful in high doses).
- Different frequencies interact uniquely with biological tissues, to influence cellular function.

<u>Ionizing Radiation</u>	<u>Non-Ionizing Radiation</u>
High-energy radiation that can remove tightly bound electrons from atoms , leading to ionization.	Low-energy radiation that does not have enough energy to ionize atoms or molecules.
X-rays, Gamma rays, Ultraviolet (UV -high energy)	Radio waves, Microwaves, Infrared, Visible Light, Extremely Low Frequency (ELF), PEMF
High energy (short wavelengths, high frequency)	Low energy (long wavelengths, low frequency)
Can damage DNA, increase cancer risk, and cause mutations.	Can stimulate cellular repair, enhance circulation, and have therapeutic effects.
Harmful in high doses; can cause radiation sickness, cancer, or genetic mutations.	Generally considered safe; some concerns about prolonged exposure to certain frequencies (e.g., excessive microwave or cell phone radiation).
Medical imaging (X-rays, CT scans), radiation therapy for cancer treatment.	PEMF therapy, MRI, radio communications, infrared therapy, visible light therapy.

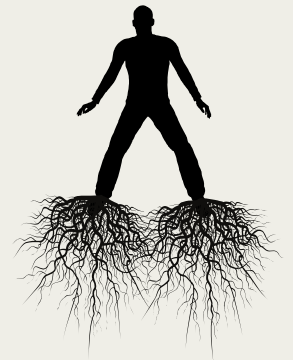
NATURAL PRESENCE OF EM WAVES IN THE BODY

- Biological Electromagnetism: The human body generates its own electromagnetic fields, crucial for physiological processes.
- Heart's Electromagnetic Field: The heart generates the strongest EM field in the body, detectable by ECG, influencing surrounding tissues.



NATURAL PRESENCE OF EM WAVES IN THE BODY

- Different brainwave frequencies regulate mental states and cognitive function:
 - Delta (0.5-4 Hz): Deep sleep and healing.
 - Theta (4-8 Hz): Meditation and creativity.
 - Alpha (8-12 Hz): Relaxation and mental clarity.
 - Beta (12-30 Hz): Active thinking and problem-solving.
 - Gamma (30+ Hz): High-level cognition and consciousness.
- The body's natural EM fields regulate health, and external EM therapies can support biological balance.
- The Schumann Resonance influences brain waves and matches the brain's electromagnetic signals



ELECTROMAGNETIC WAVES IN THE HUMAN BODY

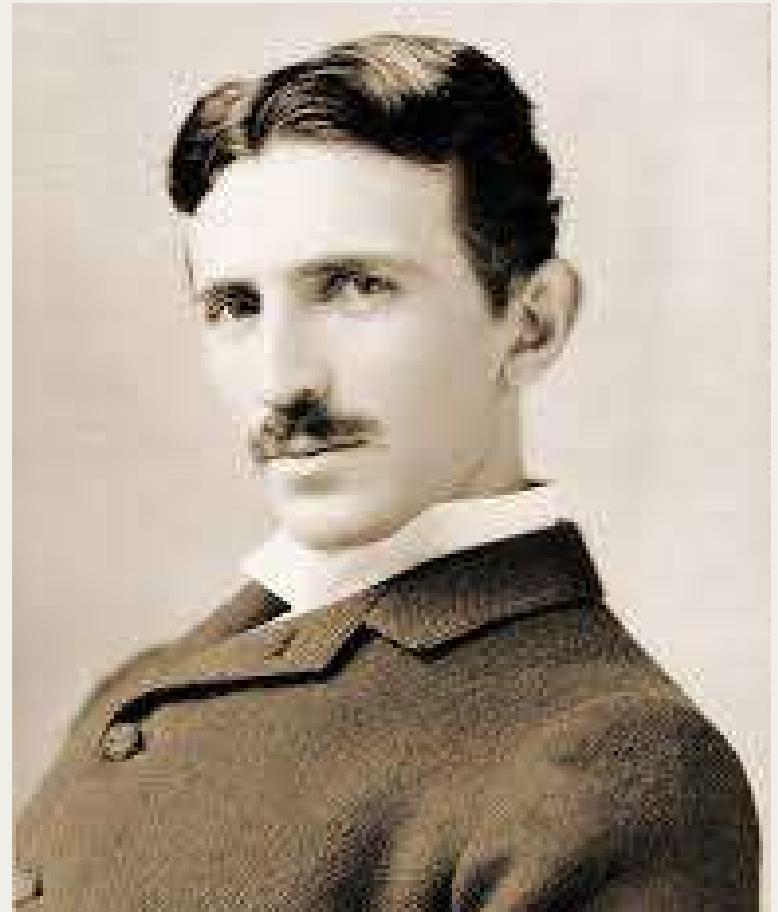
- Charged particles generate both electric and magnetic fields.
- Ions such as potassium, sodium, magnesium, and chloride serve as charge carriers.
- Ions flow through conductors such as blood vessels, lymphatic ducts, and intra/extracellular fluids to create electric currents.
- Cells maintain their own voltage and generate electric currents through electron movement, producing bioelectromagnetic fields.
- The human body functions as an intricate bioelectromagnetic system where electric currents and magnetic fields regulate health and physiology.

HOW EM WAVES INTERACT WITH CELLS

- Cells use electromagnetic signaling for communication.
- Certain frequencies influence ion transport, ATP production, & mitochondrial health
- For example PEMF Therapy: Stimulates cellular repair, reduces inflammation, and enhances circulation.
- Therapeutic frequencies optimize biological functions rather than disrupt them.

PIONEERS OF EM HEALING

- Nikola Tesla (1856-1943)
- Discovered that electricity and electromagnetic fields could influence biological processes.
- Experimented with high-frequency currents and Tesla coils for health benefits.
- Developed early wireless energy transmission concepts that laid the foundation for future EM therapies.



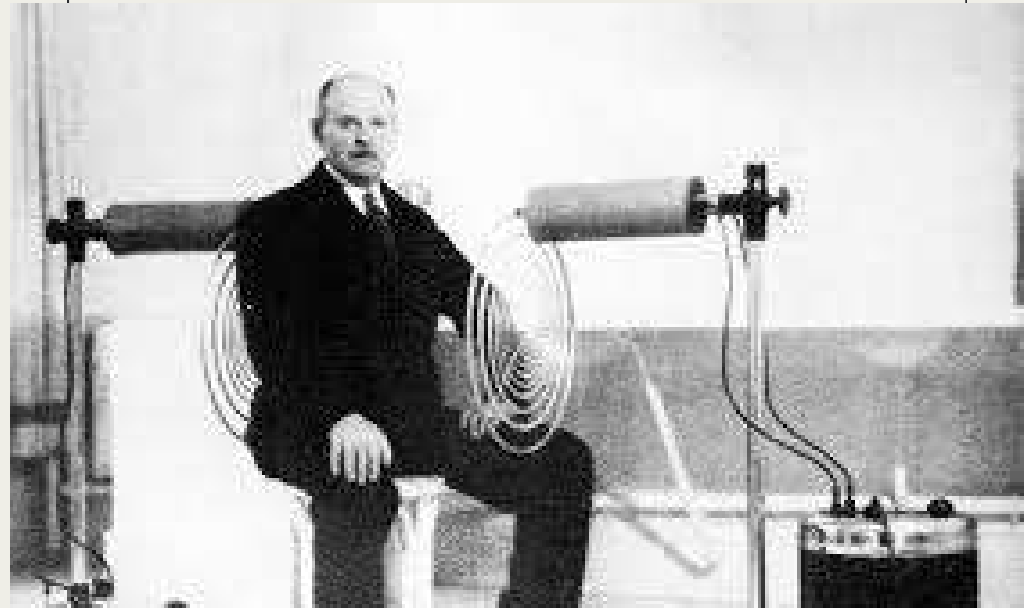
PIONEERS OF EM HEALING

- Royal Rife (1888-1971)
- Invented the Rife microscope to observe microorganisms.
- Discovered the "Mortal Oscillatory Rate" for various pathogenic organisms, to destroy the organisms by vibrating them using radio waves of this particular frequency.
- Discovered pleomorphic bacteria, that microorganisms can transform into different forms under various environmental conditions.



PIONEERS OF EM HEALING

- Georges Lakhovsky (1869-1942)
- Proposed that cells resonate at specific frequencies and that disease arises from imbalanced vibrations.
- Invented the Multiple Wave Oscillator (MWO) to restore cellular resonance and promote healing.
- Used in early experiments showing promising effects on plants and living organisms.



MODERN APPLICATIONS

TENS (Transcutaneous Electrical Nerve Stimulation)

- How It Works: Uses low-voltage electrical currents to stimulate nerves for pain relief.
- Applications: Chronic pain management, muscle rehabilitation, post-surgical recovery.
- Scientific Basis: Modulates pain signals through nerve stimulation and releases endorphins.



MODERN APPLICATIONS

FSM (Frequency-Specific Microcurrent)

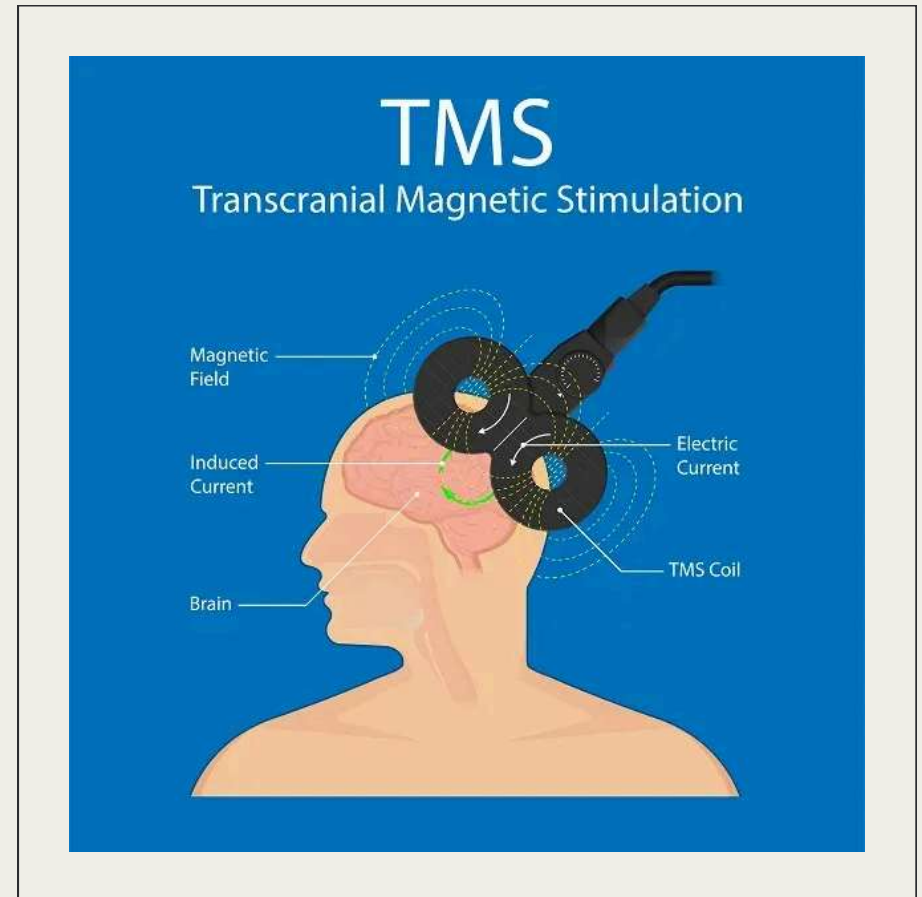
- How It Works: Uses low-level electrical currents at specific frequencies to target pain and inflammation.
- Applications: Fibromyalgia, nerve pain, sports injuries, tissue regeneration.
- Scientific Basis: Believed to enhance cellular energy (ATP production) and reduce inflammation.



MODERN APPLICATIONS

Transcranial Magnetic Stimulation (TMS)

- How It Works: Uses magnetic fields to stimulate nerve cells in the brain.
- Applications: Depression, anxiety, PTSD, neurological disorders.
- Scientific Basis: Modifies brain activity in targeted regions, promoting neuroplasticity.

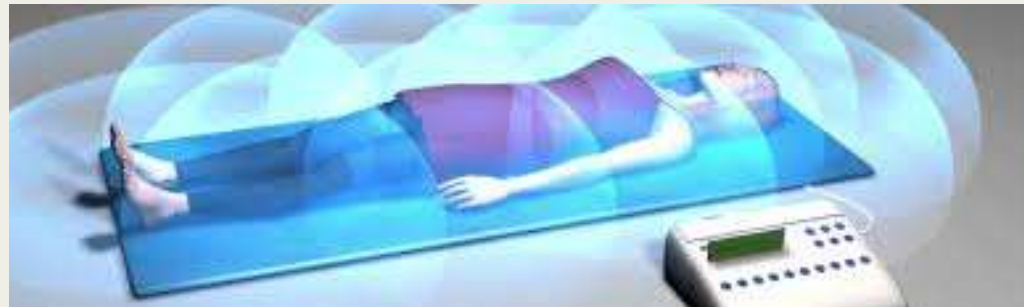


MODERN APPLICATIONS

PEMF (Pulsed Electromagnetic Field Therapy)

- How It Works: Delivers pulsed magnetic fields to stimulate cellular function and healing.
- Applications: Bone healing, arthritis, chronic pain, neurological recovery.

The FDA granted approval for the application of PEMF in the repair of non-union fractures in humans in 1979



ALTERNATIVE APPLICATIONS

- Her philosophy was that all or most of human diseases, including cancer are related to parasitic infection.
- Used an EM device called a Syncrometer to destroy parasitic pathogens she identified and resulted in remission of many chronic diseases including HIV and cancer



DR. HULDA CLARK, PH.D, N.D
1928 - 2009

ALTERNATIVE APPLICATIONS

- 44% reduction in cancer cell growth at 160kHz with Lymphoblastic Leukemia.
- A 72% inhibition of cancer growth is seen when treated with frequency-specific Oscillating Pulsed Electric Fields (OPEF) emitted by an enclosed gas plasma antenna (Phanotron) .



**ANTHONY HOLLAND
NOVOBIOTRONICS
NONPROFIT CANCER
RESEARCH**

MODERN APPLICATIONS OF EM HEALING



**BCX ULTRA RIFE
FREQUENCY**



**PERL M+ RESONANT
LIGHT TECHNOLOGY**



**SPOOKY
PLASMA
RIFE**

OUR PROCESS AND APPLICATION OF EM WAVES

The body's response to illness and disease is deeply influenced by its internal terrain — its overall state of balance, detoxification ability, and resilience to stressors.

3 Step Philosophy

- **Identify** causative pathogens
- **Neutralize** pathogens
- **Detoxify** neutralized pathogens

We emphasize strengthening the body's natural defenses by managing stress and optimizing its biological environment.

- **A weakened or toxic internal environment makes the body susceptible to illness.**
- **A strong immune system, proper nutrition, a balanced microbiome and ph can make the body inhospitable to disease.**

OUR PROCESS AND APPLICATION OF EM WAVES

Zyto Software

- Biofeedback technology measuring galvanic skin response
- Energetic responses to various digital signatures of health-related items
- Provides personalized wellness report, helping practitioners identify imbalances and tailor health solutions.



Spooky2 Software

- Plasma device runs on Spooky2 Software
- Spooky2 database integrates 13 sub-databases, collectively providing over 42,000 programs.

OUR PROCESS AND APPLICATION OF EM WAVES

- Nutrition: Whole, organic foods rich in vitamins, minerals, and antioxidants support cellular function and detoxification.
- Hydration: Clean, structured, or mineralized water improves detox pathways.
- Gut Health: A diverse microbiome enhances immune function and prevents systemic inflammation.
- Detoxification: Supporting the liver, kidneys, and lymphatic system with herbs, sweating, and hydration removes toxins that weaken immunity.
- Emotional Healing: Releasing trapped emotions, trauma, and negative thought patterns can prevent disease from manifesting.
- Energetic Balance: Sound therapy, frequency medicine, and grounding help regulate stress and restore cellular communication.

"If you want to find the
secrets of the universe,
think in terms of energy,
frequency, and vibration"
– Nicola Tesla

RESOURCES

Allegretti, M. (2023). The frequencies of rifting: From the first frequencies discovered by royal rife to today. Power-waves.

Allegretti, M. (2018). Therapeutic Waves: Electromagnetic technologies from diagnosis to cancer research. Power-waves.

**Cianni, L., Di Gialleonardo, E., Coppola, D., Capece, G., Libutti, E., Nannerini, M., Maccauro, G., & Vitiello, R. (2024). Current evidence using pulsed electromagnetic fields in osteoarthritis: A systematic review. Journal of Clinical Medicine, 13(7), 1959.
<https://doi.org/10.3390/jcm13071959>**

**Flatscher, J., Pavez Loriè, E., Mittermayr, R., Meznik, P., Slezak, P., Redl, H., & Slezak, C. (2023). Pulsed electromagnetic fields (pemf) — physiological response and its potential in trauma treatment. International Journal of Molecular Sciences, 24(14), 11239.
<https://doi.org/10.3390/ijms241411239>**

Gerber, R. (2001). Vibrational medicine: The #1 handbook of subtle-energy therapies (3rd ed.). Bear & Co.

**Holland, A., & Bare, J. (2023). Destructive Cancer Resonant Frequency Formant (DCRFF) Reduces Acute Lymphoblastic Leukemia Growth.
<https://doi.org/10.20944/preprints202305.2053.v1>**

**Meessen, A. (2020). Virus Destruction by Resonance. Journal of Modern Physics, 11(12), 2011–2052.
<https://doi.org/10.4236/jmp.2020.1112128>**

Xu, W., Xie, X., Wu, H., Wang, X., Cai, J., Xu, Z., & E, S. (2022). Pulsed electromagnetic therapy in Cancer treatment: Progress and outlook. VIEW, 3(5). <https://doi.org/10.1002/viw.20220029>